NAME OF WORK : **Improvements to roads,drains and other development works at Yelahanka old town, Maruthinagara, sapthagiri layout Gandhinagara KHB Colony, Nehru nagara, Shivanahalli, PDMS APTS Premies and Surrounding areas in Ward No 01 of Yelahanka Division under Amruth Nagarothana Grants(PACKAGE NO 01)**

Quality Control Reports

First and Part Bill

(Book No.01)

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2022-11-21-01 **Date: 22-11-22**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 21-11-22

Type of Mix : BC (Bituminous Concrete) - 6th Main Road

Date of Test : 21-11-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.7	473.6
3	Initial weight of Paper	W3	4	3.6
4	Final weight of Paper	W4	6	4.8
5	Increase in weight of Filter Paper	W5=W4-W3	2	1.2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.46	5.52
7	Average percentage	%	5.49	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Lab ID : CP-RW-2022-11-21-01

Date: 22-11-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.71

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.0	44.0	42-58
1.18	29	295	62.1	37.9	34-48
0.6	11	306	64.5	35.5	26-38
0.3	46	352	74.2	25.8	18-28
0.15	45	397	83.6	16.4	12-20
0.075	55	452	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473.61

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	75	79	16.7	83.3	70-88
4.75	118	197	41.6	58.4	53-71
2.36	73	270	57.0	43.0	42-58
1.18	29	299	63.1	36.9	34-48
0.6	11	310	65.5	34.5	26-38
0.3	46	356	75.2	24.8	18-28
0.15	45	401	84.7	15.3	12-20
0.075	48	449	94.8	5.2	4-10

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Lab ID : CP-RW-2022-10-28-01 **Date: 31-10-22**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 28-10-22

Type of Mix : BC (Bituminous Concrete)- Sapthagiri Layout 5th Cross Road

Date of test : 28-10-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.6	473.5
3	Initial weight of Paper	W3	4	3.6
4	Final weight of Paper	W4	6	4.8
5	Increase in weight of Filter Paper	W5=W4-W3	2	1.2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X100	5.48	5.53
7	Average percentage	%	5.51	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2022-10-28-01** **Date: 31-10-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.58

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	75	83	17.5	82.5	70-88
4.75	115	198	41.7	58.3	53-71
2.36	67	265	55.8	44.2	42-58
1.18	22	287	60.5	39.5	34-48
0.6	16	303	63.8	36.2	26-38
0.3	58	361	76.1	23.9	18-28
0.15	28	389	82.0	18.0	12-20
0.075	45	434	91.4	8.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473.54

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	68	74	15.6	84.4	70-88
4.75	105	179	37.8	62.2	53-71
2.36	79	258	54.5	45.5	42-58
1.18	35	293	61.9	38.1	34-48
0.6	15	308	65.0	35.0	26-38
0.3	58	366	77.3	22.7	18-28
0.15	38	404	85.3	14.7	12-20
0.075	38	442	93.3	6.7	4-10

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TT/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-06-01** **Date: 09-09-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-06/W O/34/2022-23
Date of Receipt	:	06-09-22
Sample Type	:	Zuari 53grade
Source of Sample	:	BSF Campus
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-09-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	-
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	-
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-06-01** **Date: 06-10-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	06-09-22
Sample Type	:	Zuari 53grade
Source of Sample	:	BSF Campus
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	07-09-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

A.E.E

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-06-01** **Date: 08-09-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	06-09-22
Sample Type/ Size	:	20mm down size coarse aggregate
Source of Sample	:	BSF Campus
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-09-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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A.E.E

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-09-06-01** **Date: 08-09-22**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No. 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 06-09-22

Sample Type : Fine Aggregate - M. Sand

Source of Sample : BSF Campus

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 06-09-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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A.E.E

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-09-06-01** **Date: 08-09-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

A.E.E

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-06-01** **Date: 09-09-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	06-09-22
Sample Type	:	Zuari 53grade
Source of Sample	:	Maruthi Nagara
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-09-22
Environmental Conditions during test	:	Temperature: 26°C Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.4	-
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	-
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

A.E.E

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-06-01** **Date: 08-09-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.35	_
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-10-01 **Date: 07/10/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 10-09-22

Customer ID : Coping Concrete Maruthi Nagara 13th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete Maruthi Nagara 13th Cross Road	M20	09/09/2022	07/10/2022	151.52 X 150.83 X 150.46	22854	8.533	484.1	21.2	21.7
2	Coping Concrete Maruthi Nagara 13th Cross Road	M20	09/09/2022	07/10/2022	149.00 X 149.84 X 150.78	22327	8.384	511.4	22.9	
3	Coping Concrete Maruthi Nagara 13th Cross Road	M20	09/09/2022	07/10/2022	151.70 X 151.36 X 149.92	22962	8.222	484.4	21.1	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-10-01** **Date: 07/10/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants.

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 10-09-22

Customer ID : Coping Concrete Maruthi Nagara 14th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/10/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete Maruthi Nagara 14th Cross Road	M20	09/09/2022	07/10/2022	149.18 X 149.25 X 150.10	22265	8.743	471.3	21.2	21.6
2	Coping Concrete Maruthi Nagara 14th Cross Road	M20	09/09/2022	07/10/2022	151.90 X 149.64 X 151.90	22730	9.078	511.7	22.5	
3	Coping Concrete Maruthi Nagara 14th Cross Road	M20	09/09/2022	07/10/2022	150.74 X 149.01 X 150.24	22461	8.998	473.3	21.1	

* The results obtained are satisfactory as per standard requirements.

A.E.E

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-09-12-01** **Date: 19/09/2022**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	12-09-22
Customer ID	:	Drain Bottom Raft - BSF Campus Aviation Training Institute Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/09/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - BSF Campus Aviation Training Institute Road	M20	11/09/2022	18/09/2022	149.36 X 150.30 X 150.37	22450	8.653	354.2	15.8	16.1
2	Drain Bottom Raft - BSF Campus Aviation Training Institute Road	M20	11/09/2022	18/09/2022	150.17 X 149.58 X 149.95	22462	8.403	377.4	16.8	
3	Drain Bottom Raft - BSF Campus Aviation Training Institute Road	M20	11/09/2022	18/09/2022	151.48 X 149.01 X 151.11	22572	8.733	354.0	15.7	

* The results obtained are satisfactory as per standard requirements.

A.E.E

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-14-01 **Date: 20/09/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 14-09-22

Customer ID : Coping Concrete Sankarappa Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 20/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete Sankarappa Layout	M20	13/09/2022	20/09/2022	149.73 X 150.70 X 151.59	22563	8.862	348.6	15.5	16.0
2	Coping Concrete Sankarappa Layout	M20	13/09/2022	20/09/2022	151.16 X 151.87 X 150.43	22956	8.326	390.0	17.0	
3	Coping Concrete Sankarappa Layout	M20	13/09/2022	20/09/2022	150.77 X 151.60 X 150.71	22858	8.882	353.4	15.5	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/10/2022

Lab ID	:	CP-2022-09-16-01
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	16-09-22
Customer ID	:	Coping Concrete Maruthi Nagara 14th Cross Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/10/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete Maruthi Nagara 14th Cross Road	M20	15/09/2022	13/10/2022	149.05 X 149.44 X 150.20	22273	8.807	477.6	21.4	21.8
2	Coping Concrete Maruthi Nagara 14th Cross Road	M20	15/09/2022	13/10/2022	150.83 X 149.68 X 150.60	22577	8.749	505.1	22.4	
3	Coping Concrete Maruthi Nagara 14th Cross Road	M20	15/09/2022	13/10/2022	149.10 X 151.05 X 149.91	22521	8.468	483.3	21.5	

• The results obtained are satisfactory as per standard requirements.

A.E.E

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-17-01** **Date: 23/09/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 17-09-22

Customer ID : Culvert Bottom Raft - Saptagiri Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C15

Date of test : 23/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft - Saptagiri Layout	M20	16/09/2022	23/09/2022	149.95 X 151.08 X 149.93	22654	8.289	360.7	15.9	16.0
2	Culvert Bottom Raft - Saptagiri Layout	M20	16/09/2022	23/09/2022	151.79 X 151.58 X 150.12	23008	8.949	386.9	16.8	
3	Culvert Bottom Raft - Saptagiri Layout	M20	16/09/2022	23/09/2022	151.63 X 150.22 X 150.16	22778	8.500	348.7	15.3	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig. Date. BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-17-01** **Date: 14/10/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 17-09-22

Customer ID : Drain Bottom Raft - Saptagiri Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/10/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Saptagiri Layout	M20	16/09/2022	14/10/2022	150.24 X 150.10 X 151.11	22552	8.140	490.6	21.8	21.9
2	Drain Bottom Raft - Saptagiri Layout	M20	16/09/2022	14/10/2022	150.66 X 149.98 X 149.54	22596	8.922	513.7	22.7	
3	Drain Bottom Raft - Saptagiri Layout	M20	16/09/2022	14/10/2022	150.22 X 151.74 X 149.42	22794	8.575	485.0	21.3	

* The results obtained are satisfactory as per standard requirements.

A.E.E

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.
R KARTHIK/RECHAN
Authorised Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-19-01 **Date: 26/09/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 19-09-22

Customer ID : Drain Side Wall -PDMS Office Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - PDMS Office Road	M20	18/09/2022	25/09/2022	151.67 X 150.14 X 150.20	22772	8.492	360.9	15.8	15.8
2	Drain Side Wall - PDMS Office Road	M20	18/09/2022	25/09/2022	151.26 X 149.53 X 151.92	22618	9.018	373.0	16.5	
3	Drain Side Wall - PDMS Office Road	M20	18/09/2022	25/09/2022	151.48 X 149.09 X 150.12	22584	8.238	342.4	15.2	

• The results obtained are satisfactory as per standard requirements.

A.E.E

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-19-01 **Date: 26/09/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 19-09-22

Customer ID : Culvert Side Wall - Saptagiri Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall - Saptagiri Layout	M20	18/09/2022	25/09/2022	151.38 X 149.47 X 150.97	22627	8.190	342.8	15.1	15.5
2	Culvert Side Wall - Saptagiri Layout	M20	18/09/2022	25/09/2022	151.68 X 149.27 X 150.09	22641	8.752	364.3	16.1	
3	Culvert Side Wall - Saptagiri Layout	M20	18/09/2022	25/09/2022	151.18 X 151.75 X 150.19	22942	8.788	350.6	15.3	

• The results obtained are satisfactory as per standard requirements.

A.E.E

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K KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-09-19-01 **Date: 23-09-22**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Source of Sample : BSF Campus

Date of Receipt : 19-09-22

Sample Type /Size : Precast Cover Slab (100 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 19/09/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.04	100.48	1.116	7859	169.5	21.6	20.1	25.1
2	Cover Slab-2	100.06	100.52	1.122	7862	171.5	21.8	20.3	25.4
3	Cover Slab-3	100.02	100.51	1.118	7856	183.5	23.4	21.7	27.2

* The results obtained are satisfactory as per standard requirements.

A.E.E

CIVIL Pro Sig Date BANGALORE

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Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-09-19-01** **Date: 21-10-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Source of Sample	:	Judicial Layout
Date of Receipt	:	17-10-22
Sample Type /Size	:	Precast Cover Slab (230 mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	17/10/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.05	100.62	2.135	7860	189.5	24.1	22.4	28.0
2	Cover Slab-2	100.04	100.64	2.235	7859	187.5	23.9	22.2	27.7
3	Cover Slab-3	100.01	100.72	2.345	7854	193.5	24.6	22.9	28.6

* The results obtained are satisfactory as per standard requirements.

A.E.E

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-09-22-01 **Date: 26-09-22**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 22-09-22

Sample Type : Zuari 53grade

Source of Sample : Maruthi Nagara

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 23-09-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.53	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

• The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig Date BANGALORE
KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-09-22-01 **Date: 24-09-22**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 22-09-22

Sample Type : Fine Aggregate (M - Sand)

Source of Sample : Maruthi Nagara

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 22-09-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

A.E.E

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-23-01 **Date: 28/09/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 23-09-22

Customer ID : Cement Concrete Pavement - BSF Campus

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - BSF Campus	M30	21/09/2022	28/09/2022	150.89 X 151.42 X 151.78	22847	8.913	573.5	25.1	25.4
2	Cement Concrete Pavement - BSF Campus	M30	21/09/2022	28/09/2022	150.70 X 151.78 X 150.20	22874	8.518	606.2	26.5	
3	Cement Concrete Pavement - BSF Campus	M30	21/09/2022	28/09/2022	151.13 X 149.48 X 149.99	22591	8.259	553.1	24.5	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/10/2022

Lab ID	:	CP-2022-09-27-01
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	27-09-22
Customer ID	:	Cement Concrete Pavement - 20th Cross Road Maruthi Nagar
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - 20th Cross Road Maruthi Nagar	M30	26/09/2022	03/10/2022	150.66 X 149.79 X 149.58	22568	9.034	586.3	26.0	25.6
2	Cement Concrete Pavement - 20th Cross Road Maruthi Nagar	M30	26/09/2022	03/10/2022	149.07 X 149.89 X 149.69	22344	8.313	584.2	26.1	
3	Cement Concrete Pavement - 20th Cross Road Maruthi Nagar	M30	26/09/2022	03/10/2022	149.95 X 149.98 X 149.89	22489	8.664	557.3	24.8	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-09-28-01 **Date: 30-09-22**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 28-09-22

Sample Type : Fine Aggregate (M - Sand)

Source of Sample : Lake View Road

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 28-09-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	54	80	8.0	92.0	60-95	75-100	85-100	95-100
4	1.18 mm	238	318	31.8	68.2	30-70	55-90	75-100	90-100
5	600 micron	205	523	52.3	47.7	15-34	35-59	60-79	80-100
6	300 micron	206	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-28-01** **Date: 01-10-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.15	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-01 **Date: 06/10/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 30-09-22

Customer ID : Cement Concrete Pavement - Maruthi Nagar

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 05/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Maruthi Nagar	M30	28/09/2022	05/10/2022	150.35 X 151.01 X 151.25	22703	8.812	504.8	22.2	23.0
2	Cement Concrete Pavement - Maruthi Nagar	M30	28/09/2022	05/10/2022	150.13 X 150.61 X 150.95	22611	8.972	528.1	23.4	
3	Cement Concrete Pavement - Maruthi Nagar	M30	28/09/2022	05/10/2022	150.65 X 149.85 X 151.64	22574	8.381	525.5	23.3	

* The results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-29-01 **Date: 26/10/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 29-09-22

Customer ID : Culvert Bottom Raft-Lake View Layout Villa Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 26/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft-Lake View Layout Villa Road	M20	28/09/2022	26/10/2022	150.62 X 150.53 X 149.93	22672	8.350	529.9	23.4	23.2
2	Culvert Bottom Raft-Lake View Layout Villa Road	M20	28/09/2022	26/10/2022	150.88 X 149.80 X 149.62	22601	8.787	505.5	22.4	
3	Culvert Bottom Raft-Lake View Layout Villa Road	M20	28/09/2022	26/10/2022	151.97 X 151.39 X 151.55	23008	8.868	549.7	23.9	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-10-06-01** **Date: 10-10-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	06-10-22
Sample Type	:	40mm down size coarse aggregate
Source of Sample	:	Judicial Layout
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-10-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	219	219	1.5	98.5	90-100
3	20 mm	7257	7476	49.8	50.2	30-70
4	10 mm	4444	11920	79.5	20.5	10-35
5	4.75 mm	2675	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-07-01 **Date: 03/11/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 07-10-22

Customer ID : Cement Concrete Pavement - Maruthi Nagar 14th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Maruthi Nagar 14th Cross Road	M30	06/10/2022	03/11/2022	151.99 X 149.00 X 150.83	22647	8.190	746.9	33.0	33.2
2	Cement Concrete Pavement - Maruthi Nagar 14th Cross Road	M30	06/10/2022	03/11/2022	150.18 X 149.77 X 149.74	22493	8.179	732.9	32.6	
3	Cement Concrete Pavement - Maruthi Nagar 14th Cross Road	M30	06/10/2022	03/11/2022	150.10 X 150.75 X 150.58	22629	8.881	768.3	34.0	

* The results obtained are satisfactory as per standard requirements.

A.E.E

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Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilprocexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-10-12-01** **Date: 18/10/2022**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	12-10-22
Customer ID	:	Drain Bottom Raft-Judicial Layout 7th Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	11/10/2022	18/10/2022	151.14 X 149.01 X 151.43	22522	9.036	425.7	18.9	18.4
2	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	11/10/2022	18/10/2022	149.79 X 149.91 X 150.29	22455	8.696	405.5	18.1	
3	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	11/10/2022	18/10/2022	149.20 X 150.59 X 150.83	22468	8.432	408.0	18.2	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-10-12-01** **Date: 18/10/2022**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	12-10-22
Customer ID	:	Drain Bottom Raft-Judicial Layout 7th Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	11/10/2022	18/10/2022	151.14 X 149.01 X 151.43	22522	9.036	425.7	18.9	18.4
2	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	11/10/2022	18/10/2022	149.79 X 149.91 X 150.29	22455	8.696	405.5	18.1	
3	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	11/10/2022	18/10/2022	149.20 X 150.59 X 150.83	22468	8.432	408.0	18.2	

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-10-17-01** **Date: 11/11/2022**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	17-10-22
Customer ID	:	Drain Bottom Raft-Judicial Layout 7th Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	14/10/2022	11/11/2022	149.70 X 150.37 X 151.21	22510	8.955	529.0	23.5	23.5
2	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	14/10/2022	11/11/2022	149.05 X 150.40 X 150.33	22417	8.956	513.8	22.9	
3	Drain Bottom Raft-Judicial Layout 7th Main Road	M20	14/10/2022	11/11/2022	149.54 X 149.92 X 150.58	22418	9.049	537.5	24.0	

• The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-10-18-01** **Date: 17-11-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	18-10-22
Sample Type	:	Zuari 53grade
Source of Sample	:	Surabhi Layout
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	19-10-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

• The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-10-18-01**	**Date: 21-10-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)	
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23	
Source of Sample	:	Maruthi Nagara	
Date of Receipt	:	18-10-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	18-10-22	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.2	298.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.5	72.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	229.2	225.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.5
5	Aggregate impact value	(B/A)*100	23.0	24.1
6	Aggregate impact value (Mean of two tests)	Pecentage	23.6	

* The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2022-10-18-01	**Date: 21-10-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)	
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23	
Source of Sample	:	Judicial Layout	
Date of Receipt	:	18-10-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	18-10-22	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.3%	
Combined Flakiness and Elongation Index for WMM	23.6%	

• The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-10-28-01**	**Date: 25-10-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)	
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-10-22	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of Test	:	23-10-22	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

• The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2022-10-24-01** **Date: 27-10-22**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 24-10-22

Type of Mix : DBM(Dense Bitumnous Macadam)

Date of test : 24-10-22

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.5	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

• The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID : CP-RW-2022-10-29-01 Date: 31-10-22

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.4	14.4	3.02	97.0	90-100
19	24	38.4	8.05	91.9	71-95
13.2	120	158.4	33.21	66.8	56-80
4.75	96	254.4	53.33	46.7	38-54
2.36	80	334.4	70.10	29.9	28-42
0.3	62.4	396.8	83.19	16.8	7-21
0.075	52.8	449.6	94.26	5.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.8	14.8	3.11	96.9	90-100
19	24	38.8	8.15	91.8	71-95
13.2	120	158.8	33.36	66.6	56-80
4.75	94	252.8	53.11	46.9	38-54
2.36	80	332.8	69.92	30.1	28-42
0.3	62.4	395.2	83.03	17.0	7-21
0.075	52.8	448	94.12	5.9	2-8

• The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Lab ID : CP-RW-2022-11-01-01 **Date: 02-11-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

• The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID : **CP-RW-2022-11-05-01** **Date: 07-11-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	41	438	93.0	7.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	45	442	93.6	6.4	4-10

• The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/11/2022

ab ID	:	CP-2022-11-10-01
roject Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
gency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
ustomer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
ate of Receipt	:	10-11-22
ustomer ID	:	Cement Concrete Pavement - Maruthi nagar cross road
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M30 / 7 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
ate of test	:	16/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Maruthi nagar cross road	M30	09/11/2022	16/11/2022	151.36 X 151.86 X 150.25	22986	8.286	494.2	21.5	23.1
2	Cement Concrete Pavement - Maruthi nagar cross road	M30	09/11/2022	16/11/2022	149.21 X 150.55 X 151.36	22464	8.685	530.1	23.6	
3	Cement Concrete Pavement - Maruthi nagar cross road	M30	09/11/2022	16/11/2022	149.92 X 149.54 X 151.32	22419	8.185	541.0	24.1	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/12/2022

b ID	:	CP-2022-11-22-01
oject Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants.
ency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
te of Receipt	:	22-11-22
stomer ID	:	Cement Concrete Pavement - Lake view Layout 4th main road
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M30 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
te of test	:	19/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Lake view Layout 4th main road	M30	21/11/2022	19/12/2022	151.14 X 149.60 X 149.43	22610	8.866	755.0	33.4	33.3
2	Cement Concrete Pavement - Lake view Layout 4th main road	M30	21/11/2022	19/12/2022	149.77 X 150.97 X 151.88	22611	8.673	757.2	33.5	
3	Cement Concrete Pavement - Lake view Layout 4th main road	M30	21/11/2022	19/12/2022	150.43 X 149.85 X 151.55	22542	8.139	742.0	32.9	

The results obtained are satisfactory as per standard requirements.

A.E.E

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexports@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-RW-2022-11-23-01** **Date: 28-11-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	23-11-22
Sample Type/ Size	:	Precast concrete blocks for paving
Source of Sample	:	BSF Campus
Reference to BIS codes	:	IS 15658:2021
Date of test	:	23-11-22

1.Compressive Strength

SLNo.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	75.99	36.5	36.6
2	198.48	159.64	75.25	36.8	
3	199.54	159.54	75.48	35.9	
4	197.68	159.22	75.55	37.2	
5	198.11	159.87	75.32	36.8	
6	198.18	160.02	75.11	36.4	
7	198.45	158.99	75.98	37.3	
8	197.22	159.22	75.12	35.8	

2. Water Absorption

SLNo.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	3.29	3.64
2	4.898	4.721	75.22	3.75	
3	4.988	4.802	75.44	3.87	

* The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-RW-2022-11-23-01 Date: 28-11-22

DIMENSION ANALYSIS

SLno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	202	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	202	200	
3	399	201	203	
4	402	202	199	
5	402	199	199	
6	402	203	200	
7	400	201	201	
8	400	203	199	
9	399	203	203	
10	403	203	202	
11	403	203	202	
12	401	202	203	
13	404	201	202	
14	402	201	199	
15	399	201	202	
16	400	199	203	
17	402	201	202	
18	401	203	203	
19	401	200	201	
20	404	202	200	
Average of 20	401	202	201	

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A.E.E

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-RW-2022-11-23-01 **Date: 26-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.45	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.19	–

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

A.E.E

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-RW-2022-11-23-01 **Date: 26-11-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-06/W O/34/2022-23
Date of Receipt	:	23-11-22
Sample Type	:	Zuari 53grade
Source of Sample	:	Bangla School
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-11-22
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.64	–
2	Finess by Air permeablity method (m^2/kg.Min)	296.2	225m^2/kg. Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time	146 minutes	Not less than 30 minutes
6	Final Setting time	292 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

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R BARTHIK REGHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****